

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

25. (Currently Amended) A method of ablating organic tissue, comprising:
positioning an electrode adjacent the organic tissue;
supplying electrical power to the electrode to effect ablation of the organic tissue;
sensing with a sensor positioned adjacent the electrode the vibration of the organic tissue
being ablated wherein the vibration is self-generated in the organic tissue in response to the
ablation and the vibration occurs during phase-transition but prior to substantial-boiling ~~to~~ of
water in the organic tissue; and
reducing power to the electrode when the vibration reaches a given value.
26. (Original) The method of claim 25, further comprising:
halting the power when the vibration reaches a given value.
27. (Original) The method of claim 25, further comprising:
supplying fluid from a fluid supply to the tissue; and
halting the fluid supply when the vibration reaches a given value.
28. (Original) The method of claim 25 further comprising:
sending a signal from the sensor to a switch to reduce the power.
29. (Original) The method of claim 25, further comprising:
providing output from an output device when the vibration reaches a given value.
30. (Original) The method of claim 29 further comprising:

sending a signal from the sensor to the output device; and sending an indicator signal from the output device.

31. (Original) The method of claim 25 wherein the sensor is a piezoelectric crystal.

32. (Original) The method of claim 25 wherein the sensor is a piezoelectric polymer.

33. (Previously Presented) The method of claim 25 wherein the sensor is integrated with the electrode.

34. – 61. (Canceled)

62. (Withdrawn) A method of ablating electrically conductive pathways in heart tissue within the body cavity of a patient, comprising:

positioning a conductive element within the body cavity adjacent the selected heart tissue;

supplying power to the conductive element;

sensing with a sensor positioned adjacent the conductive element the vibration of the heart tissue; and

reducing power to the conductive element when the vibration reaches a given value.

63. (Withdrawn) The method of claim 62, further comprising:

halting the power when the vibration reaches a given value.

64. (Withdrawn) The method of claim 62, further comprising:

supplying fluid from a fluid supply to the heart tissue; and

halting the fluid supply when the vibration reaches a given value.

65. (Withdrawn) The method of claim 62 further comprising:

sending a signal from the sensor to a switch to reduce the power.

66. (Withdrawn) The method of claim 62, further comprising:
providing output from an output device when the vibration reaches a given value.
67. (Withdrawn) The method of claim 66 further comprising:
sending a signal from the sensor to the output device; and sending an indicator
signal from the output device.
68. (Withdrawn) The method of claim 62 wherein the sensor is a piezoelectric
crystal.
69. (Withdrawn) The method of claim 62 wherein the sensor is a piezoelectric
polymer.
70. (Withdrawn) The method of claim 62 wherein the sensor is integrated with the
conductive element.
71. (Withdrawn) A method of ablating organic tissue, comprising:
positioning a conductive element adjacent the organic tissue;
supplying an ionic fluid between the conductive element and the organic tissue;
supplying electrical power to the conductive element and the ionic fluid;
sensing with a sensor positioned adjacent the conductive element
the vibration of the organic tissue; and
reducing power to the conductive element when the vibration reaches a given
value.
72. (Withdrawn) The method of claim 71, further comprising:
halting the electrical power when the vibration reaches a given value.
73. (Withdrawn) The method of claim 71, further comprising:

halting the ionic fluid supply when the vibration reaches a given value.

74. (Withdrawn) The method of claim 71 further comprising:
sending a signal from the sensor to a switch to reduce the electrical power.
75. (Withdrawn) The method of claim 71, further comprising:
providing output from an output device when the vibration reaches a given value.
76. (Withdrawn) The method of claim 75 further comprising:
sending a signal from the sensor to the output device; and sending an indicator
signal from the output device.
77. (Withdrawn) The method of claim 71 wherein the sensor is a piezoelectric
crystal.
78. (Withdrawn) The method of claim 71 wherein the sensor is a piezoelectric
polymer.
79. (Withdrawn) The method of claim 71 wherein the sensor is integrated with the
conductive element.
80. (New) A method of ablating organic tissue, comprising:
sensing an initial state of vibration of the organic tissue prior to ablating the organic
tissue
positioning an electrode adjacent the organic tissue;
supplying electrical power to the electrode to effect ablation of the organic tissue;
sensing with a sensor positioned adjacent the electrode the vibration of the organic tissue
being ablated wherein the vibration is self-generated in the organic tissue in response to the
ablation and the vibration occurs prior to substantial boiling to water in the organic tissue;
determining a difference in vibration between the initial state of vibration and the
vibration self-generated in the organic tissue in response to the ablation; and

reducing power to the electrode when the self-generated vibration reaches a given value.